"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV A.A.

89-3-8/30

AUTHORS: Sokolov, M. M., Ochkur, A. P., Fedorov, A. A., Karabanov, N. I.

TITLE: The Photo-Electric Absorption of Scattered γ-Rays (Foto-elektricheskoye pogloshcheniye rasseyannogo γ-izlucheniya)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 3, pp. 284 - 285 (USSR)

ABSTRACT: The measurement of the γ-spectrum was carried out by means of a scintillation spectrometer to which a multichannel pulse analyzer was connected. As γ-radiator Tl-204, Hg-203, Cr-51, Cs-137 and Zn-65 were used, and the distance between the detector and the radiator was varied between 5 and 15 cm. For the case Cr-51, D = 10 cm, and with sand as scattering material, which once contained 0,5 %, then 2 %, 5 % of lead and 10 % of copper the measured scattering spectrum is graphically represented.
At about 100 KeV a minimum can be observed in the γ-spectrum which coincides with theoretical calculations. Within the range of about 150 KeV a more marked decrease is to be seen which corresponds to the single scattering of γ-quanta

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The Photo-Electric Absorption of Scattered γ-Rays 89-3-8/30

with minimum energy. In theoretical calculation this energy turns out to be 145 KeV.
The admixtures of lead considerably change the spectrum, not only decreasing the number of pulses but causing a depression which is to be seen within the range of 100 KeV, being dependent on the greatly increased photo-electric absorption coefficient for the γ-radiation, the energy of which approaches that of the K-binding energy of lead (88,2 KeV). Analogous pictures are given by all radiators investigated. There is 1 figure.

SUBMITTED: July 22, 1957

AVAILABLE: Library of Congress

1. Scattered γ-Rays-Photoelectric absorption 2. γ-Spectrum-Measurement 3. Scintillation spectrometers-Applications

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FOK, V.A.; FEDOROV, A.A.

Diffraction of a plane electromagnetic wave on an ideally conducting paraboloid of revolution. Zhur. tekh. fiz. 28 no.11: 2548-2566 N '58. (MIRA 12:1)
(Electric waves)

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B006/B063 82311

5.5300

AUTHORS: Fedorov, A. A., Sokolov, M. M., Ochkur, A. P.

TITLE: Measurement of the γ-Emission Spectra of Radiative Neutron Capture in Certain Rocks

PERIODICAL: Atomnaya energiya, 1960, Vol. 8, No. 6, pp. 555-556

TEXT: The gamma lines emitted by various nuclei as a result of their absorption of thermal neutrons are characteristic of these nuclei. An examination of this gamma spectrum makes it possible to analyze complex chemical compositions. The authors used this method for the first time in 1956 when they detected certain chemical elements in rock specimens. (Po+Be) with 2.10^6n/sec served as neutron source, and the gamma radiation was recorded by a scintillation spectrometer whose resolution was 12% for the gamma line of Cs^{137} (0.66 Mev). The experimental arrangement is briefly described. Fig. 1 shows a pulse-height spectrum corresponding to the gamma radiation that occurs in neutron bombardment

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of hornstone (Curve 1) and diorite (Curve 2). The former is mainly composed of silicon and oxygen, the latter of oxygen, silicon, sodium, calcium, aluminum, and iron. The capture cross sections of the thermal neutrons and the main gamma lines ($E_\gamma > 4.5$ Mev) of these elements are listed in a Table. As practically no neutrons are absorbed by oxygen, only the Si line (4.95 Mev) occurs in the 5-Mev region. Diorite exhibits additional maxima at 6.4 Mev (Na, Ca) and 7.6 Mev (Al, Fe). The elements may be distinguished by continuous recording of the intensity of γ-radiation. Fig. 2 shows core sampling diagrams which are briefly described. There are 2 figures, 1 table, and 3 references: 1 Soviet and 1 Canadian.

SUBMITTED: December 12, 1958

4

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9,3700 (1163, 1127, 1036)
9,9300

21428
S/109/61/006/001/005/023
E032/E114

AUTHORS: Vaynshteyn, L.A., and Fedorov, A.A.

TITLE: Scattering of plane and cylindrical waves by an elliptical cylinder and the concept of diffraction rays

PERIODICAL: Radiotekhnika i elektronika, Vol.6, No.1, 1961, pp. 31-46

TEXT: The present state of the theory of diffraction of electromagnetic waves by convex conducting bodies is largely based on the papers of V.A. Fok (Refs.1-7). These papers introduced special functions (attenuation coefficients) which determine the diffraction field for different dispositions of the source and the point of observation. To start with, these functions refer to the "half-shadow" region. In the illuminated region they go over into the formulae of geometrical optics and have been extended to all points for the case of a sphere (Belkina and Vaynshteyn, Ref.9, and Fedorov, Ref.10) and a circular cylinder (Goryainov, Ref.11). However, it is stated that the generalisation of the various formulae to a surface with a variable curvature is not obvious. This generalisation has been carried out by J.B. Keller (Ref.12)

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E032/E114

Scattering of plane and cylindrical waves by an elliptical cylinder and the concept of diffraction rays

in the case of two-dimensional problems. Keller introduced the concept of diffraction rays which have curvilinear sections lying on the surface of the body and represent waves which have experienced diffraction in the normal sense of the term. On this basis the total field can be represented as a sum of contributions due to ordinary rays obeying the laws of geometrical optics and the above diffraction rays. The present authors emphasise that the concept of diffraction rays is still not completely justified from the theoretical point of view. It is simply a device for obtaining a physical interpretation and a short formulation of the asymptotic laws of diffraction for a certain class of problems. In the present paper the authors derive the asymptotic solution for the diffraction by a convex cylinder with variable surface curvature and the cylinder is then used to give a theoretical foundation for the concept of diffraction rays. The cylinder is taken in the form of an elliptical cylinder and the discussion is specialised to two-dimensional fields and simple boundary

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Scattering of plane and cylindrical... E032/E114

conditions. In particular, the diffraction of cylindrical and plane waves by a perfectly reflecting elliptical cylinder is discussed, assuming that the transverse dimensions and radii of curvature of the cylinder are large in comparison with the wavelength. The exact solution of the problem is obtained in the form of a series and a contour integral. When the asymptotic expressions for the radial and angular functions of the elliptical cylinder are substituted into the solution, one obtains the special functions introduced by V.A. Fok. The asymptotic solution obtained in this way corresponds to the concept of diffraction rays of J.B. Keller (Ref.12).
There are 2 figures and 16 references: 14 Soviet and 2 non-Soviet.

SUBMITTED: May 3, 1960

Card 3/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

KIZEVETTER, Ye.N.; KLEYN, P.N.; KHARCHEV, M.K.[deceased]; VOLOBRINSKIY, S.D.; GRODSKIY, S.Ye.; YERMILOV, A.A.; KAYALOV, G.M.; LIVSHITS, D.S.; MAKSIMOV, A.A.; MESHEL', B.S.; MUKOSEYEV, Yu.L.; OGORODNOV, S.I.; ROZENBERG, V.A.; SHRAYBER, L.G.; ZALESSKIY, Yu.Ye., retsenzent; IOKHVIDOV, E.S., retsenzent; FEDOROV, A.A., retsenzent; SAVEL'YEV, V.I., red.; LARIONOV, G.Ye., tekhn. red.

[Temporary instructions for determining the electrical loads of industrial enterprises] Vremennye rukovodiashchie ukazaniia po opredeleniiu elektricheskikh nagruzok promyshlennykh predpriiatii. Moskva, Gosenergoizdat, 1962. 45 p. (MIRA 16:2)

1. Russia (1923- U.S.S.R.) Glavnoye energeticheskoye upravleniye. 2. Leningradskoye otdeleniye Gosudarstvennogo proyektnogo instituta tyazheloy promyshlennosti (for Kizevetter, Kleyn, Kharchev). 3. Komissiya po elektricheskim nagruzkam Nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti (for Volobrinskiy, Grodskiy, Yermilov, Kayalov, Livshits, Maksimov, Meshel, Mukoseyev, Ogorodnov, Rozenberg, Shrayber). (Electric power distribution)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

GREYSUKH, M.V.; YERMILOV, A.A.; ZALESSKIY, Yu.Ye.; KAZYMOV, A.A.; KATSEVICH, L.S.; KIRPA, I.I.; KIREYEV, M.I.; KNYAZEVSKIY, B.A.; KOFMAN, K.D.; KRZHAVANIK, L.V.; KUZNETSOV, P.V.; MOROZOV, K.S.; RAKOVICH, I.I.; RYABOV, M.S.; SVENCHANSKIY, A.D.; SOKOLOV, M.M.; SYCHEV, L.I.; TVERDIN, L.M.; KHEYFITS, M.E.; SHULIMOV, Ye.V.; EPSHTEYN, L.M.; SHCHEGOL'KOV, Ye.I.; TSAPENKO, Ye.F.; FEDOROV, A.A., glav. red.; SERBINOVSKIY, G.V., red.; BOL'SHAM, Ya.M., red.; BRANDENBURGSKAYA, E.Ya., red.; TVERDIN, L.M., red.; FRIDKIN, L.M., tekhn. red.

[Handbook for power engineers of industrial enterprises in four volumes] Spravochnik energetika promyshlennykh predpriiatii v chetyrekh tomakh. Moskva, Gosenergoizdat. Vol.2. [Electric-power supply (conclusion), use of electric power and electrical equipment in some branches of industry] Elektrosnabzhenie (okonchanie), priemniki elektroenergii i elektrooborudovanie nekotorykh otraslei promyshlennosti. Pod obshchei red. A.A.Fedorova (glav. red.), G.V.Serbinovskogo i IA.M.Bol'shama. 1963. 880 p. (MIRA 16:7)

(Power engineering—Handbooks, manuals, etc.)
(Electric power distribution)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

ZHUKOVSKIY, P.M., otv. red.; TROSHIN, A.S., otv. red.; ASTAUROV, B.L., red.; ZHINKIN, L.N., red.; MATVEYEVA, T.S., red.; SAKHAROV, V.V., red.; FEDOROV, A.A., red.; CHUKSANOVA, N.A., red.

[Polyploidy and breeding; transactions] Poliploidiia i selektsiia; trudy. Moskva, Nauka, 1965. 322 p. (MIRA 18:6)

1. Soveshchaniye po poliploidii, 1963. 2. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Zhukovskiy). 3. Chlen-korrespondent AN SSSR (for all except Zhukovskiy).

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L 20806-66 EWP(j)/EWT(m)/ETC(m)-6/T IJP(c) RM/WW

ACC NR: AP6005945 (A) SOURCE CODE: UR/0191/66/000/002/0010/0011

AUTHORS: Kirilovich, V. I.; Rubtsova, I. K.; Pokrovskiy, L. I.; Khinich, R. V.; Fedorov, A. A.

ORG: none

TITLE: Synthesis of phosphor-containing polyesters and their application in preparation of fireproof polyurethane foams

SOURCE: Plasticheskiye massy, no. 2, 1966, 10-11

TOPIC TAGS: polyester plastic, polyurethane, foam plastic, fire resistant material, phosphorous acid, esterification

ABSTRACT: Polytransesterification of dimethylphosphorous acid (I) with polyols (pentaerythritol, trimethylolpropane, trimethylolethane) or of mixed polyols and diols in various ratios, has been investigated. This work is a continuation of a study of polyphosphite synthesis by V. I. Kirilovich, I. K. Rubtsova, and Ye. L. Gefter (Plast. massy, No. 7, 20, 1963), and was undertaken to test the suitability of polyesters in imparting fire-resistant properties to polyurethane foams. Reaction of the mixture of diols and polyols with I yields polyesters

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ACC NR: AP6005945 O

having viscosities similar to those of the polyurethane foams, i.e., $\eta^{25C} \leq 1000$ poise. The optimal ratio of viscosity and free hydroxyl groups in polyphosphites occurs with pentaerythritol:hexane-diol = 0.3:0.7 and pentaerythritol:diethylene glycol = 0.2:0.8. Of all polyphosphites obtained with individual polyols, polytrimethylolpropane phosphite had the most acceptable viscosity. The use of metallic sodium as a catalyst permitted lowering of the initial reaction temperature, thus preventing excessive rise of the viscosity of the product. The resulting phosphor-containing polyurethane foams were self-extinguishing and thermally stable. Orig. art. has: 3 tables.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 008

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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.

Conducting practical studies in mathematics in institutes of higher education. Uch zap. Ped inst Gerts. 197:280-292 '58. (MIRA 16:9)
(Mathematics—Study and teaching)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

STEPIN, Vasiliy Vasil'yevich; SILAYEVA, Yelizaveta Vasil'yevna; PLISS, Anastasiya Mikhaylovna; KURBATOVA, Vera Ivanovna; KRYUCHKOVA, Lidiya Merkur'yevna; PONOSOV, Vladimir Il'ich; DYMOV, A.M., doktor khim. nauk, prof., red.; FEDOROV, A.A., st. nauchn. sotr., red.; TKACHENKO, N.S., inzh., red.; DOBRZHANSKIY, A.V., st. nauch. sotr., red.; LEVIT, Ye.I., red.izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Analysis of ferrous metals, alloys and manganese ores] Analiz chernykh metallov, splavov i margantsevykh rud. [By] V.V. Stepin i dr. Moskva, Metallurgizdat, 1964. 498 p. (MIRA 17:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Dymov, Fedorov, Tkachenko, Dobrzhanskiy).

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; RODIONOVA, N.S.

Thermogravimetric study of the collecting agent $(MnO_2)x(Fe_2O_3)y(H_2O)2$ used in separation of phosphorus. Zhur. anal.khim. 18 no.12:1504-1506 D '63. (MIRA 17:4)

1. Institut geokhimii i analiticheskoy khimii imeni Vernadskogo AN SSSR, Moskva.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.

Asymptotic diffraction formulas for a sphere with random placement of the source and observation point. Radiotekh. i elektron. 9 no.9:1702-1706 S '64. (MIRA 17:10)

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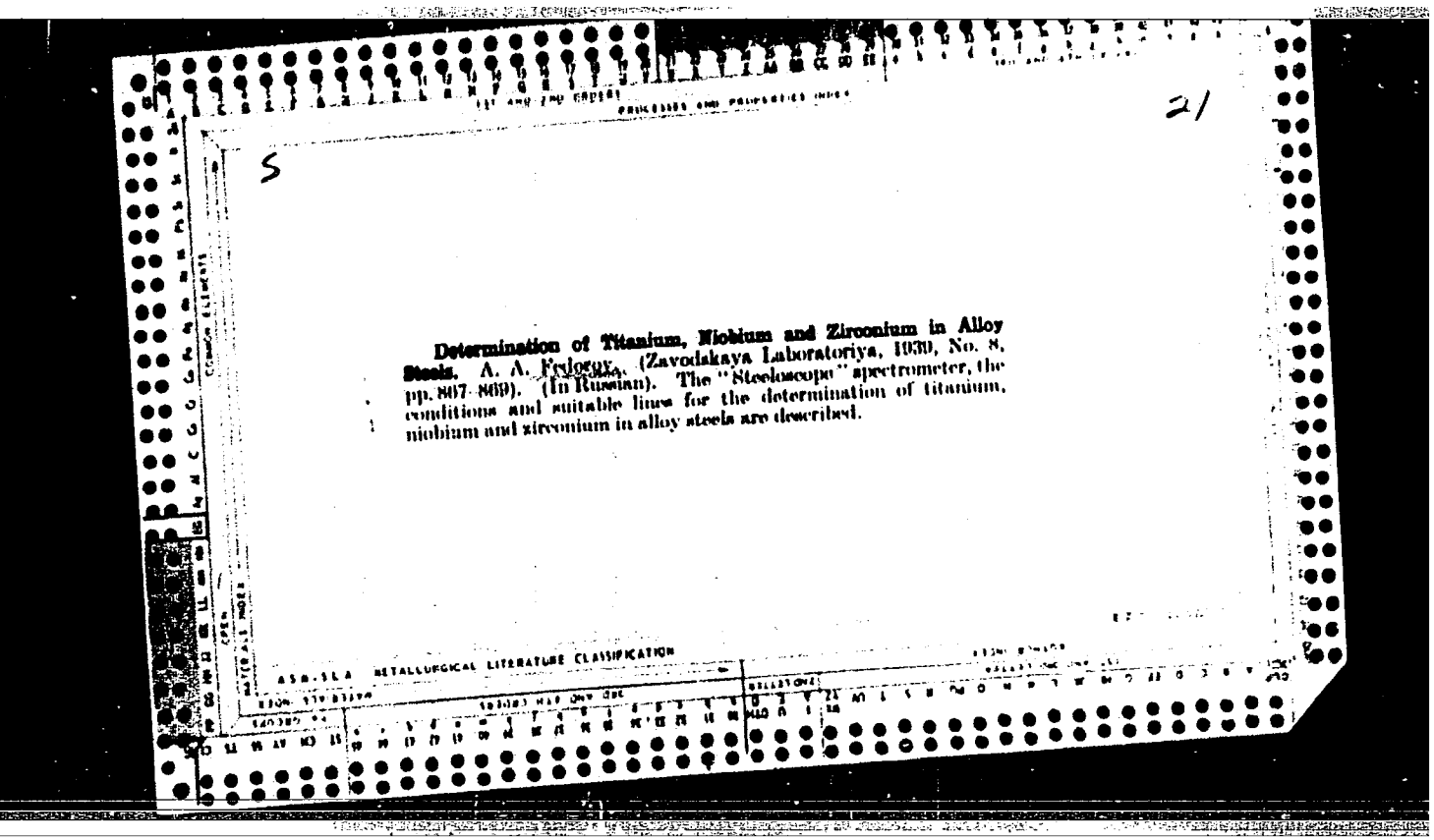

Determination of Titanium, Niobium and Zirconium in Alloy Steels. A. A. Frolova. (Zavodskaya Laboratoriya, 1939, No. 8, pp. 867–869). (In Russian). The "Steeloscope" spectrometer, the conditions and suitable lines for the determination of titanium, niobium and zirconium in alloy steels are described.

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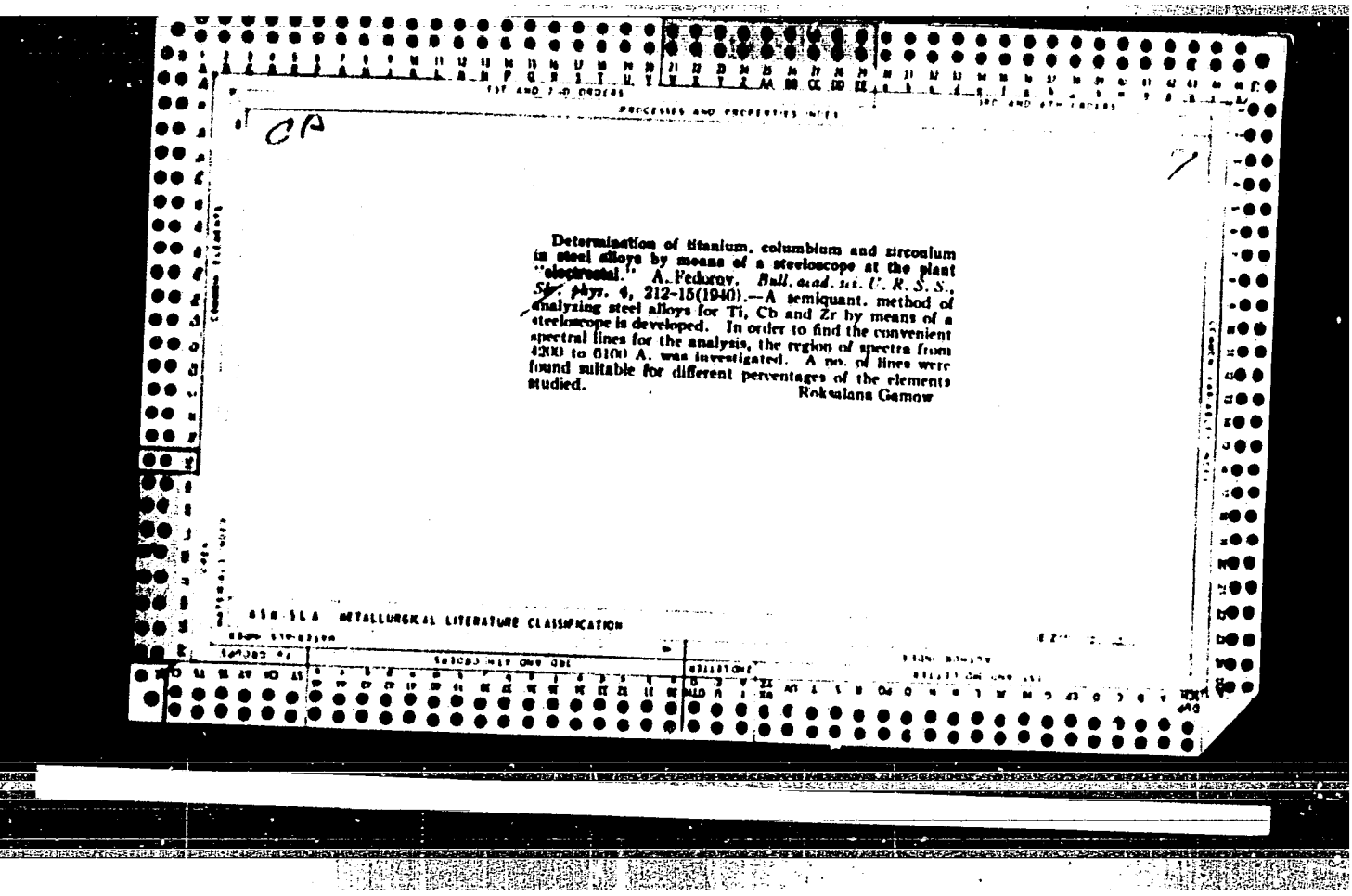

Determination of titanium, columbium and zirconium in steel alloys by means of a steeloscope at the plant "electrostal." A. Fedorov. *Bull. acad. sci. U. R. S. S., Sér. phys.* 4, 212-15(1940).—A semiquant. method of analyzing steel alloys for Ti, Cb and Zr by means of a steeloscope is developed. In order to find the convenient spectral lines for the analysis, the region of spectra from 4200 to 6100 A. was investigated. A no. of lines were found suitable for different percentages of the elements studied.

Roksalana Gamow

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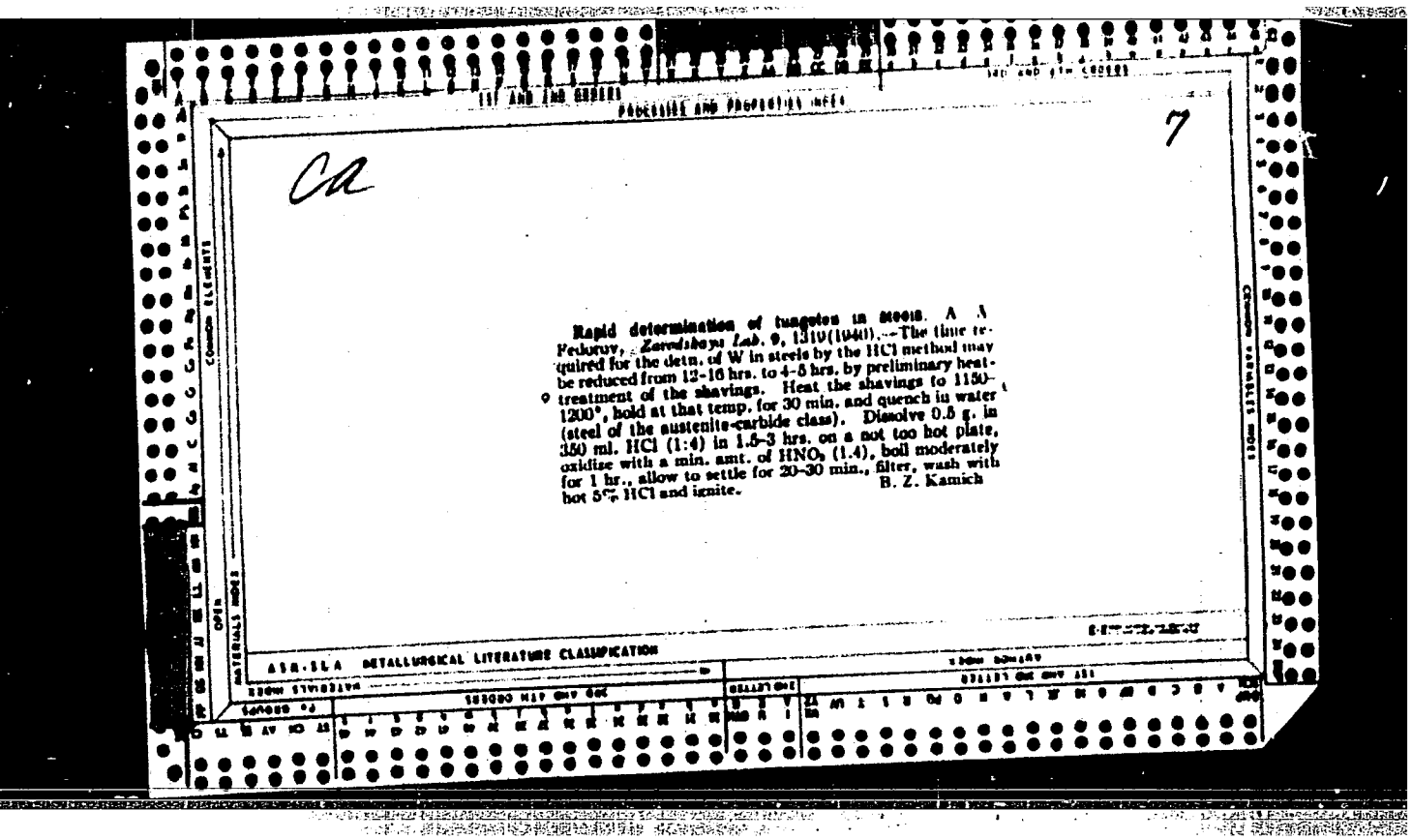

Rapid determination of tungsten in steels. A. A. Fedoruv, *Zavodskaya Lab.* 9, 1319(1940).—The time required for the detn. of W in steels by the HCl method may be reduced from 12–16 hrs. to 4–5 hrs. by preliminary heat-treatment of the shavings. Heat the shavings to 1150–1200°, hold at that temp. for 30 min. and quench in water (steel of the austenite-carbide class). Dissolve 0.5 g. in 350 ml. HCl (1:4) in 1.5–3 hrs. on a not too hot plate, oxidize with a min. amt. of HNO_3 (1.4), boil moderately for 1 hr., allow to settle for 20–30 min., filter, wash with hot 5% HCl and ignite.

B. Z. Kamich

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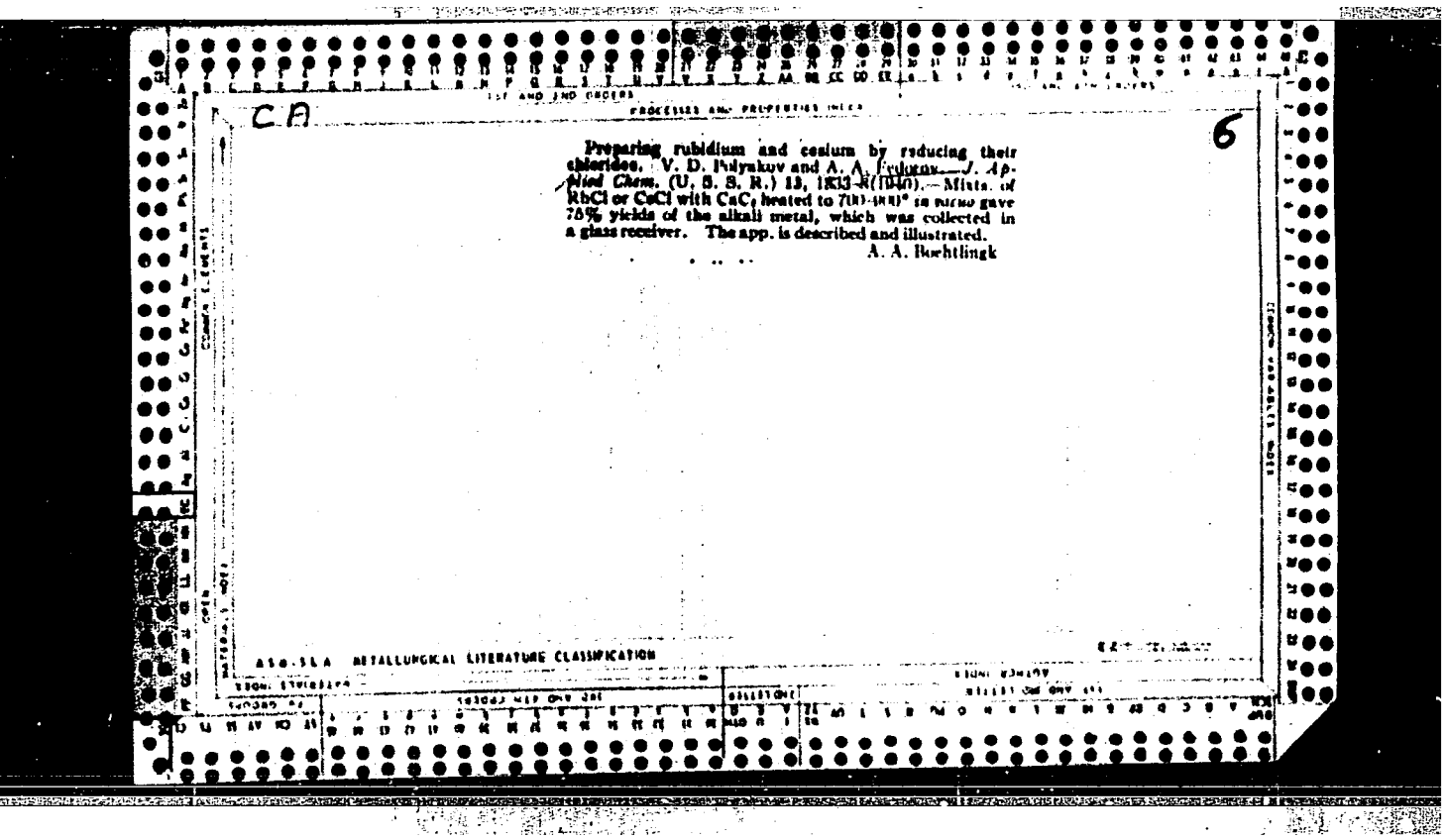

CA

6

Preparing rubidium and cesium by reducing their chlorides. V. D. Polyakov and A. A. Fedorov. *J. Applied Chem.* (U. S. S. R.) 13, 1813-8 (1940).—Mixts. of RbCl or CsCl with CaC_2 heated to 700-800° in vacuo gave 75% yields of the alkali metal, which was collected in a glass receiver. The app. is described and illustrated.
A. A. Buchtlingk

A50-51A METALLURGICAL LITERATURE CLASSIFICATION

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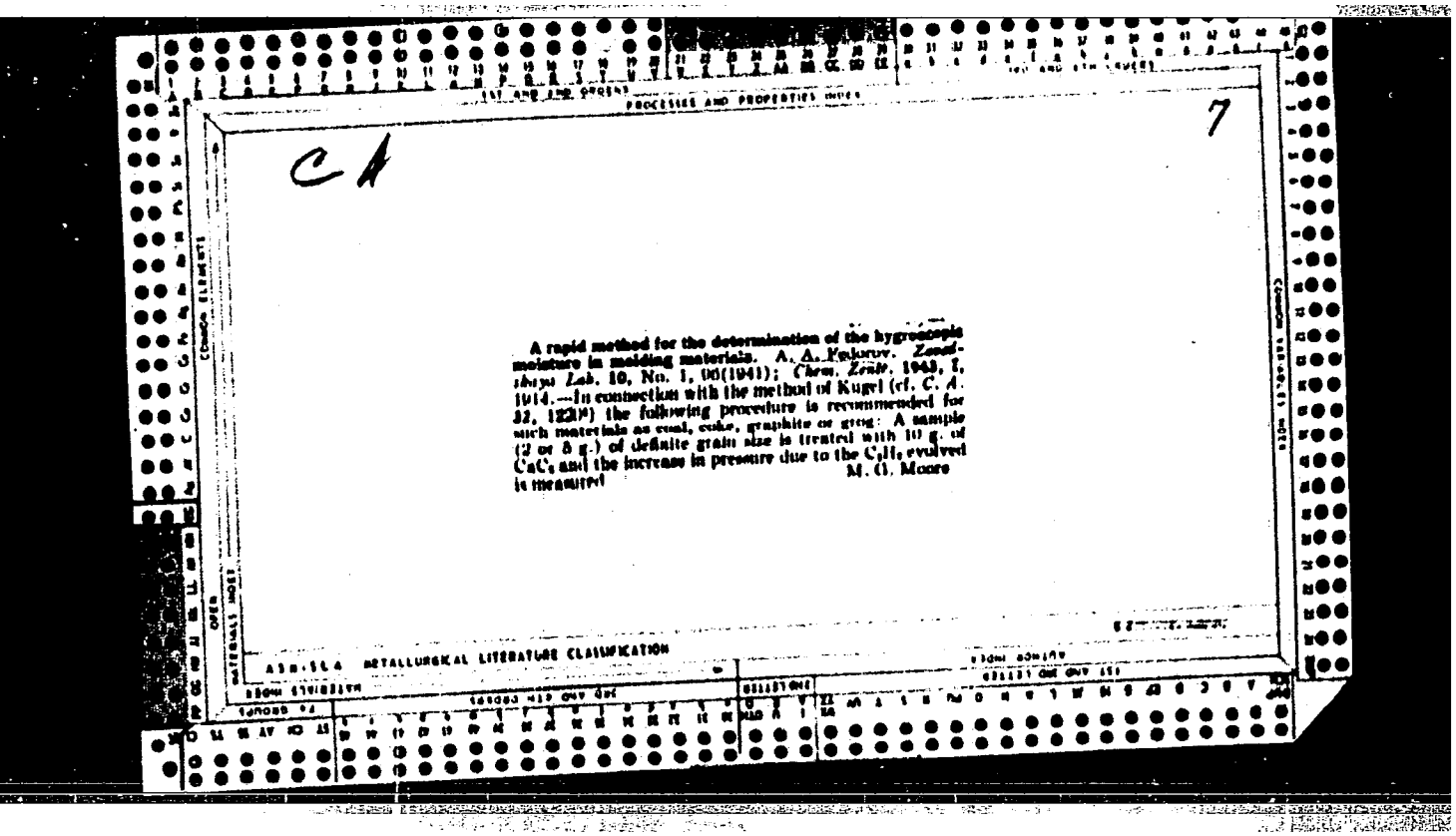

CA

7

A rapid method for the determination of the hygroscopic moisture in molding materials. A. A. Fedurov. *Zavod. Lab.* 10, No. 1, 66(1941); *Chem. Zentr.* 1943, I, 1014.—In connection with the method of Kugel (cf. *C. A.* 32, 1230[9]) the following procedure is recommended for such materials as coal, coke, graphite or grog: A sample (3 or 5 g.) of definite grain size is treated with 10 g. of CaC_2 and the increase in pressure due to the C_2H_2 evolved is measured. M. G. Moore

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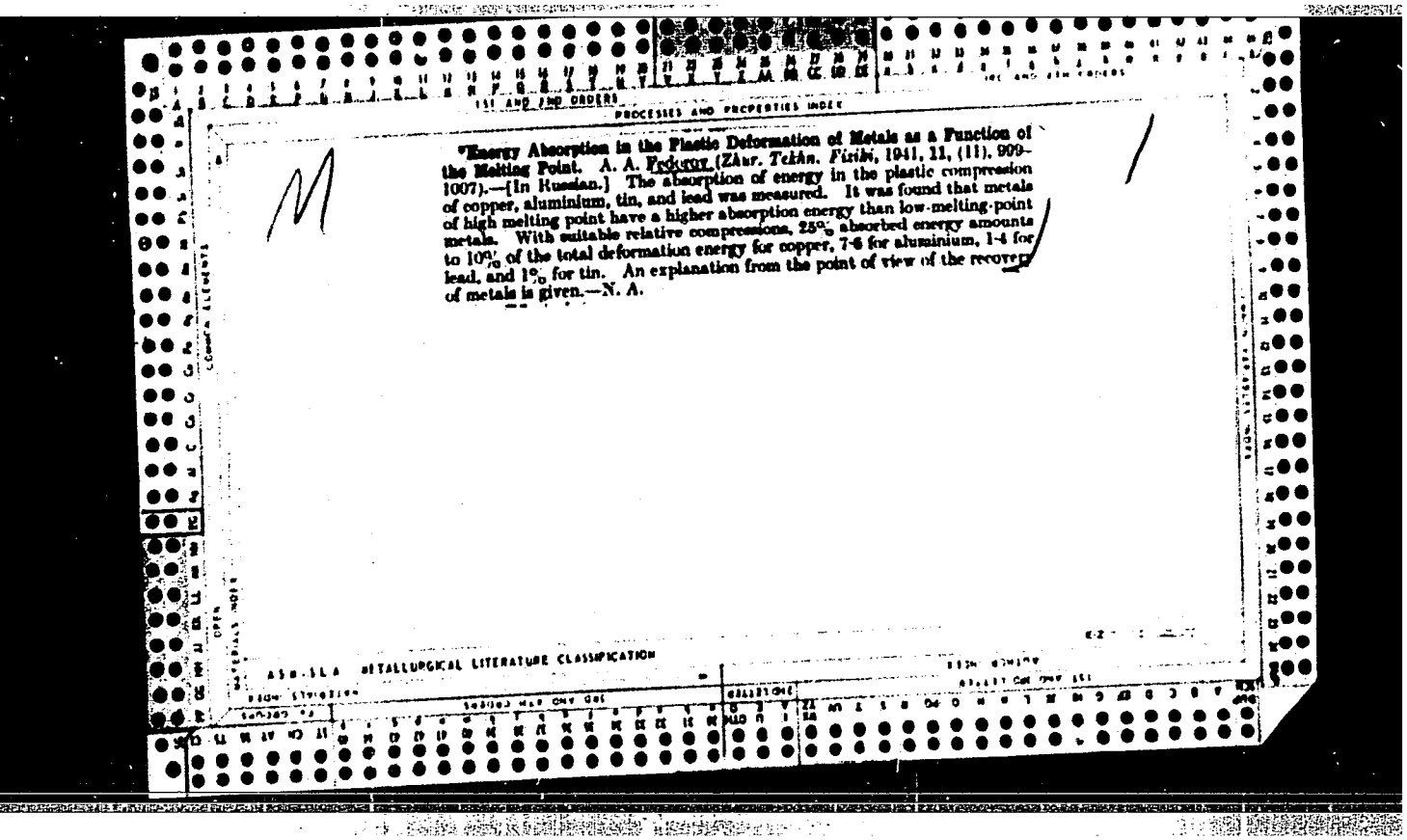

PROCESSES AND PROPERTIES INDEX

"Energy Absorption in the Plastic Deformation of Metals as a Function of the Melting Point. A. A. Predtech. (*Zhur. Tekhn. Fiziki*, 1941, 11, (11), 909–1007).—[In Russian.] The absorption of energy in the plastic compression of copper, aluminium, tin, and lead was measured. It was found that metals of high melting point have a higher absorption energy than low-melting-point metals. With suitable relative compressions, 25% absorbed energy amounts to 10% of the total deformation energy for copper, 7-6 for aluminium, 1-4 for lead, and 1% for tin. An explanation from the point of view of the recovery of metals is given.—N. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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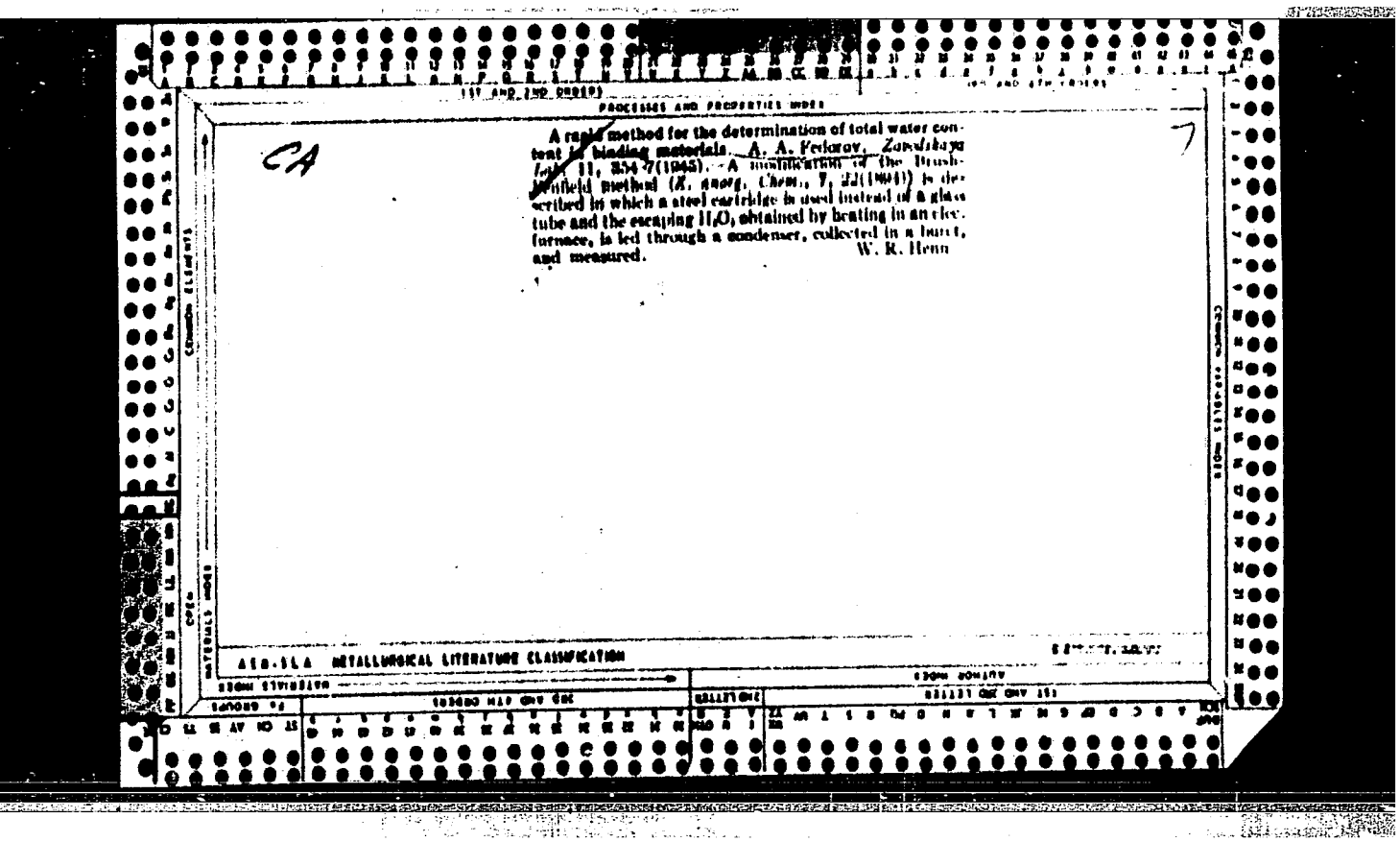
1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX



CA

7

A rapid method for the determination of total water content in binding materials. A. A. Fedorov. *Zavodskaya Lab.* 11, 354-7(1945). A modification of the Brush-Penfield method (*Z. anorg. Chem.*, 7, 22(1894)) is described in which a steel cartridge is used instead of a glass tube and the escaping H_2O, obtained by heating in an elec. furnace, is led through a condenser, collected in a burst, and measured. W. R. Henn

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

31729

S/081/61/000/021/030/094
B101/B147

55300

AUTHORS: Fedorov, A. A., Ozerskaya, F. A., Malinina, R. D., Sokolova, Z. M., Linkova, F. V.

TITLE: Determination of manganese, iron, nickel, and lead contents in pure electrolytic chromium

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 112, abstract 21D113 (Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, no. 19, 1960, 7 - 21)

TEXT: Methods for determining Mn, Fe, Ni, and Pb in highly pure electrolytic chromium have been developed. Mn determination is based on removing Cr from perchloro acid solution as CrO_2Cl_2 and photometrically determining the violet color of MnO_4^- forming after oxidation of manganese by means of periodate. 0.5 g (0.02 - 0.04% Mn) or 1g (0.001 - 0.02% Mn) of chromium is dissolved in 30 milliliters (ml) of concentrated HCl and 30 ml of $HClO_4$ (specific gravity 1.67). The solution is evaporated, concentrated HCl is added, and the substance is heated until the

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S/081/61/000/021/030/094
B101/B147

Determination of manganese...

liberation of CrO_2Cl_2 vapors has stopped. This process is repeated. The dry residue is dissolved in 5 ml of concentrated HCl, 15 ml of H_2SO_4 (1:4) is added, and the substance is heated until white H_2SO_4 fume has been formed. After cooling, the salt deposits are dissolved in a minimum amount of water, the solution is filtered, and evaporated to 15 - 20 ml. The residue is mixed with 1 ml of concentrated H_3PO_4, 20 ml of 2.5% KIO_4 solution, boiled for 5 - 8 min, moderately heated for another 15 - 20 min, cooled, diluted with water to 50 ml, and photometrically measured with a green light filter in a 5-cm cuvette, a standard solution serving for comparison. For determining Fe (0.002 - 0.1%), 0.5 - 2 g of the sample is dissolved in H_2SO_4 (1:4), the Cr^{3+} is oxidized with ammonium persulfate to Cr^{6+}, and iron and aluminum (as collector) are precipitated with NH_3. The precipitate is dissolved, and Fe photometrically determined with o-phenanthroline. Determination of Ni (0.001 - 0.1%) includes its separation from Cr by extracting the

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S/081/61/000/021/030/094
B101/B147

nickel dimethyl glyoximate with chloroform from weakly ammoniacal solution, re-extraction of Ni, and photometric determination with dimethyl glyoxime in alkaline medium in the presence of an oxidizing agent. For determining Pb, the latter is coprecipitated by means of H_2S with Cu (as collector). After separation from Cu by precipitation (together with Fe) by means of NH_4OH solution, polarographic determination is performed in hydrochloric acid solution containing NaCl. The effect of atmospheric oxygen, Sb, Bi, Cu, and Fe^{3+} is eliminated by metallic iron reduced with hydrogen. [Abstracter's note: Complete translation.]

X

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FEDOROV, A.A.

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniy v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 - 16 aprelya 1960 g. g. Riga, v 4 tomakh. t. 4: Poiski, razvedka i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and Nuclear Radiation in the National Economy of the USSR; Transactions on the Symposium Held in Riga, April 12 - 16, 1960, in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits) Moscow, Gostoptekhizdat, 1961. 284 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel';

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

Radioactive Isotopes and Nuclear (Cont.) SOV/5592

Tech. Ed.: A. S. Polosina.

PURPOSE : The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVERAGE: This collection of 39 articles is Vol. 4 of the Transactions of the All-Union Conference of the Introduction of Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Gosudarstvennyy nauchno-tekhnicheskiy komitet Sovet Ministrov SSSR (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Sciences USSR, Gosplan SSSR (State Planning Committee of the Council of Ministers of the USSR), Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Latvian SSR. The reports summarized in this publication deal with the advantages, prospects, and

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Radioactive Isotopes and Nuclear (Cont.) SOV/5592

development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

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Radioactive Isotopes and Nuclear (Cont.) SOV/5592

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YAKOVLEV, Pavel Yakovlevich, kand. khim. nauk; FEDOROV, Aleksey Alekseyevich, inzh.; BUYANOV, Nikolay Vasil'yevich, kand. tekhn. nauk; DYMOV, A.M., dokt. khim. nauk, prof., retsenzent; SHEMYAKIN, F.M., dokt., khim. nauk, prof., retsenzent; KHARLAMOV, I.P., kand. tekhn. nauk, retsenzent; VENETSKIY, S.I., red. izd-va; KLEYNMAN, M.R., tekhn. red.

[Analysis of data on metallurgical production; determination of microimpurities] Analiz materialov metallurgicheskogo proizvodstva; opredelenie mikroprimesei. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 316 p. (MIRA 14:7)
(Metals--Analysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

S/032/61/027/002/002/026
B134/B206

AUTHORS: Fedorov, A. A. and Ozerskaya, F. A.

TITLE: Determination of cerium in medium- and highly alloyed steels

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 2, 1961, 139-140

TEXT: The methods described in publications (Refs. 1-3) do not permit a quantitative cerium determination in the presence of certain alloyed elements. In the present case, the disturbing effect of other elements on the cerium determination was prevented by the cerium being precipitated as a fluoride and CaF_2 being used as a collector. Since even small amounts of mineral acids impair this precipitation, it is recommended to dissolve the sample in hydrofluoric acid with addition of H_2O_2. The final determination of cerium is made colorimetrically (Ref. 4) by forming the complex compound $Na_5[Ce(C_6H_5O_7)_3]$ by means of potassium citrate in alkaline medium beside H_2O_2. In order to prevent coagulation of this yellow-colored complex compound, a mixture of boric acid or glycerin with

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Trilon B (Ref. 5) can be added. The method described was tested on steel samples to which certain amounts of a cerium nitrate standard solution were added. This cerium determination can also be made by the spectroscopic method. In this case, cerium is precipitated as a fluoride with the application of calcium as a collector, the precipitate being ignited at 450-500°C. The following deviations from the mean value for three parallel determinations of cerium in steel are mentioned as maximum: 0.005% at a content of 0.01-0.03% Ce; 0.007% at 0.03-0.06% Ce; 0.009% at 0.06-0.10% Ce. There are 1 table and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I. P. Bardina
(Central Scientific Research Institute of Ferrous Metallurgy imeni I. P. Bardin)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

S/032/61/027/012/001/015
B145/B147

AUTHORS: Fedorov, A. A., Krichevskaya, A. M., and Linkova, F. V.

TITLE: Determination of sulfur in metallic chromium

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 12, 1961, 1460 - 1462

TEXT: The method suggested is based on the formation of methylene blue from H_2S with dimethyl-p-phenylene diamine sulfate and trivalent iron in hydrochloric acid solution. It permits the determination of sulfur in metallic chromium within about 1.5 hr with an accuracy of $1 \cdot 10^{-4}$%. The method can be used for the analysis of ferrochromium, Cr-Nb alloys, some types of steel, iron, cast iron, silicon, niobium, nitric, hydrochloric, and phosphoric acid salts of alkali metals, as well as bases and acids. Tungsten disturbs the analysis. Orthophosphoric acid is used as solvent. In the presence of sulfate sulfur, 0.1 g of metallic chromium is added to 30 milliliters of acid as reducing agent. Purified nitrogen is used as carrier gas. The reaction vessel of quartz is cooled (-1 to -5°C). 0.5 - 1 g of the sample is dissolved in 30 milliliters of orthophosphoric acid in an N_2 atmosphere

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... follows: A.

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... P. Bardina (Central Scientific Research
... of Ferrous Metallurgy imeni I. P. Bardina)

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FEDOROV, A.A.; SOKOLOVA, G.P.

Determination of aluminum (0.002 - 0.1 percent) in carbon and low alloy steels. Sbor. trud. TSNIICHM no.24:128-129 '62.
(MIRA 15:6)

(Steel--Analysis) (Aluminum--Analysis)

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FEDOROV, A.A.; OZERSKAYA, F.A.

Photocolorimetric determination of cerium in medium-alloy and high-alloy steels. Sbor. trud. TSNIICHM no.24:130-132 '62.
(MIRA 15:6)
(Steel alloys—Analysis) (Cerium—Analysis)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; LINKOVA, F.V.

Determination of tellurium in carbon steels. Sbor. trud. TSNIICHM no.24:147-149 '62. (MIRA 15:6)
(Steel—Analysis) (Tellurium analysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

S/776/62/000/024/001/007
E021/E483

AUTHOR: Fedorov, A.A.

TITLE: Determination of phosphorus (0.05 to 0.5%) in metallic niobium and ferro-niobium

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov. no.24. 1962. Novyye metody ispytaniy metallov. 150-163

TEXT: A new method of determining small (0.05 to 0.5%) quantities of phosphorus in niobium and ferro-niobium is described. Although more accurate than those developed in the past, the method is relatively simple - one determination requiring 1.5 to 2 hours as compared with 2 to 3 days required by a method developed by MIS. The new method is based on the formation of yellow phosphoro-molybdic hetero-polyacid $H_3[P(Mo_3O_{10})_4]\cdot nH_2O$ and its subsequent reduction in an acid medium by divalent Fe (in the presence of sulphurous acid) to a blue compound. The acidity of the solution in which the blue compound is formed is such that the silico-molybdic and arsenous-molybdic hetero-polyacids are destroyed; this makes it possible to determine P in the presence of both Si and As. In the first stage of the analysis a weighed quantity

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Determination of phosphorous ...

of the material is dissolved in a HNO_3/HF mixture. The lower valency P compounds are oxidized to orthophosphoric acid by potassium permanganate, the excess of the latter being reduced by sodium nitrite. To separate P from Fe and Nb (the latter forming a complex with HF) it is precipitated as phosphoro-molybdate which is then dissolved in an ammonia solution containing tartaric and boric acids; tartaric acid holds in solution traces of Nb trapped in the phosphoro-molybdate precipitate, and boric acid combines with small quantities of the fluorine ions, also co-precipitated with phosphoro-molybdate, to form the HBF_4 complex. Further determination of phosphorous is carried out by photo-colorimetry according to the reaction described above. The accuracy of the method, suitable for use on materials with high Nb contents, has been checked by a radiometric method using the P^{32} isotope. The new method has been adopted at TsNIIChM and at several metallurgical plants as a standard analytical technique. There are 1 figure and 5 tables.

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FEDOROV, A.A.; TIKHOMIROVA, O.F.; STREBULAYEVA, Ye.N.; CHERENOVA, O.I.

Determination of silicon in ferroniobium, niobium pentoxide, and in nickel-niobium alloys. Sbor. trud. TSNIICHM no.24: 164-167 '62. (MIRA 15:6)
(Niobium oxide--Analysis) (Niobium alloys--Analysis)
(Silicon--Analysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; LINKOVA, F.V.

Determination of aluminum oxide in aluminum metal. Sbor. trud. TSNIICHM no.24:172-178 '62. (MIRA 15:6)
(Aluminum—Analysis) (Aluminum oxide—Analysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; BUYANOV, N.V.; LINKOVA, F.V.; SUKHOVA, N.P.

Spectrochemical determination of hafnium (0.5 - 90 percent) in zirconium-hafnium and zirconium-titanium-hafnium alloys. Sbor. trud. TSNIICHM no.24:188-190 '62. (MIRA 15:6)
(Zirconium-hafnium alloys--Spectra) (Hafnium--Spectra)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; SEMGEYEV, V.

"Some methods of analysis used in ferroalloy plants" by M.V.Babaev. Reviewed by A.A.Fedorov and V.Sergeev. Zav.lab. 28 no.11:1403-1404 '62. (MIRA 15:11)

1. Nachal'nik TSentral'noy khimicheskoy laboratorii Zaporozhskogo zavoda ferrosplavov (for Sergeyev).
(Iron alloys) (Metallurgical analysis) (Babaev, M.V.)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; OZERSKAYA, F.A.; STREBULAYEVA, Ye.N.

Trilonometric determination of calcium oxide in slags using fluorescein-complexon. Zav.lab. 29 no.7:794 '63. (MIRA 16:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I.P.Bardina.
(Calcium oxide) (Acetic acid) (Slag)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; SOKOLOVA, G.P.

Determining aluminum (0.1 - 5 %) in certain steels, alloys, and metals. Sbor.trud. TSNIICHM no.31:162-169 '63. (MIRA 16:7)
(Metals--Analysis) (Aluminum--Analysis)

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FEDOROV, A.A.; OZERSKAYA, F.A.; STREBULAYEVA, Ye.N.

Using fluorexon as indicator in the trilonometric analysis of slags. (MIRA 16:7)
Sbor.trud. TSNIICHM no.31:170-172 '63.
(Fluorexon) (Slag--Analysis)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; SOKOLOVA, G.P.

Determining phosphorus in metal chromium, ferrochromium, and chromite ores. Sbor.trud. TSNIICHM no.31:175-179 '63. (MIRA 16:7)
(Chromium--Analysis) (Iron-chromium alloys--Analysis)
(Phosphorus--Analysis)

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FEDOROV, A.A.; OZERSKAYA, F.A.

Trilonometric determination of aluminum oxide in slags with the use of a xylenol orange indicator. Sbor.trud. TSNIICHM no.31: 195-196 '63. (MIRA 16:7)

(Aluminum oxide--Analysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; OZERSKAYA, F.A.; LINKOVA, F.V.

Determining micro- and macroquantities of rare-earth elements. Sbor.-trud. TSNIICHM no.31:197-199 '63. (MIRA 16:7)
(Rare-earth metals—Analysis)

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L 14979-65 EWT(m)/EPF(n)-2/EPA(bb)-2/EWP(b) Pu-4 ASD(a)-5/AFWL/SSD/AEDC(b)/ASD(m)-3/AFTC(p)/RAEM(1)/ESD(gs)/ESD(t) JD/WW/JG/ILK

ACCESSION NR: AT4048093 S/0000/64/000/000/0017/0018

AUTHOR: Fedorov, A.A.; Buyanov, N.V.; Linkova, F.V.; Sukhova, N.P. B

TITLE: Spectrochemical determination of hafnium in zirconium-hafnium and zirconium-titanium-hafnium alloys

SOURCE: Spektral'ny*ye i khimicheskiye metody* analiza materialov (Spectral and chemical methods of materials analysis); sbornik metodik. Moscow, Izd-vo Metallurgiya, 1964, 17-18

TOPIC TAGS: titanium alloy, spectroscopy, hafnium determination, hafnium alloy, zirconium alloy

ABSTRACT: The spectrochemical method used for the determination of hafnium in Zr-Hf and Zr-Ti-Hf alloys differs from the earlier methods, in that the alloy sample was dissolved in a mixture of acids, after which the hydroxides were precipitated by ammonia and calcined until the formation of oxides. Analysis was by a spectroscopic method. This method is suitable for determining 0.5 - 90% Hf; the relative error of the method for 0.5-2, 2-10, 10-40 and 40-90 % Hf is 10, 4, 2.5 and 2%, respectively. The sensitivity of the method is 0.1%. The preparation of the sample is described. The spectral

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ACCESSION NR: AT4048093

analysis was carried out on the ISP-22 spectrograph with a one-lens condenser and a 0.01 mm aperture width. The distance from the lens to the light source was 15 cm, and to the spectrograph aperture, 75 cm. The light source was a spark generator IG-2, C=0.01 microfarad, L=0.01 microhenry, spark gap 3 mm, I=1.7 amps, the distance between the carbon electrodes = 1.5 m. For the determination of 0.5-10% Hf, the pair of lines Hf 2861.70 - Zr 2856.06 Å were used; for 10-90% Hf the pair Hf 2861.012 - Zr 2810.914 Å were used instead. The experimental data are tabulated. Orig. art. has: 1 table.

ASSOCIATION: Tsentral'ny*y nauchno-issledovatel'skiy institut chernoy metallurgii im. I.P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy)

SUBMITTED: 12Feb64 ENCL: 00 SUB CODE: MM, IC

NO REF SOV: 001 OTHER: 000

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

ACCESSION NR: AT6012933 UR/2776/64/000/037/0033/0046

AUTHOR: Fedorov, A.A.

[illegible] dimetric method of determining tungsten [illegible] in the alloys chromium-[illegible] tantalum-tungsten [illegible]

[illegible] tungsten determination [illegible] analysis

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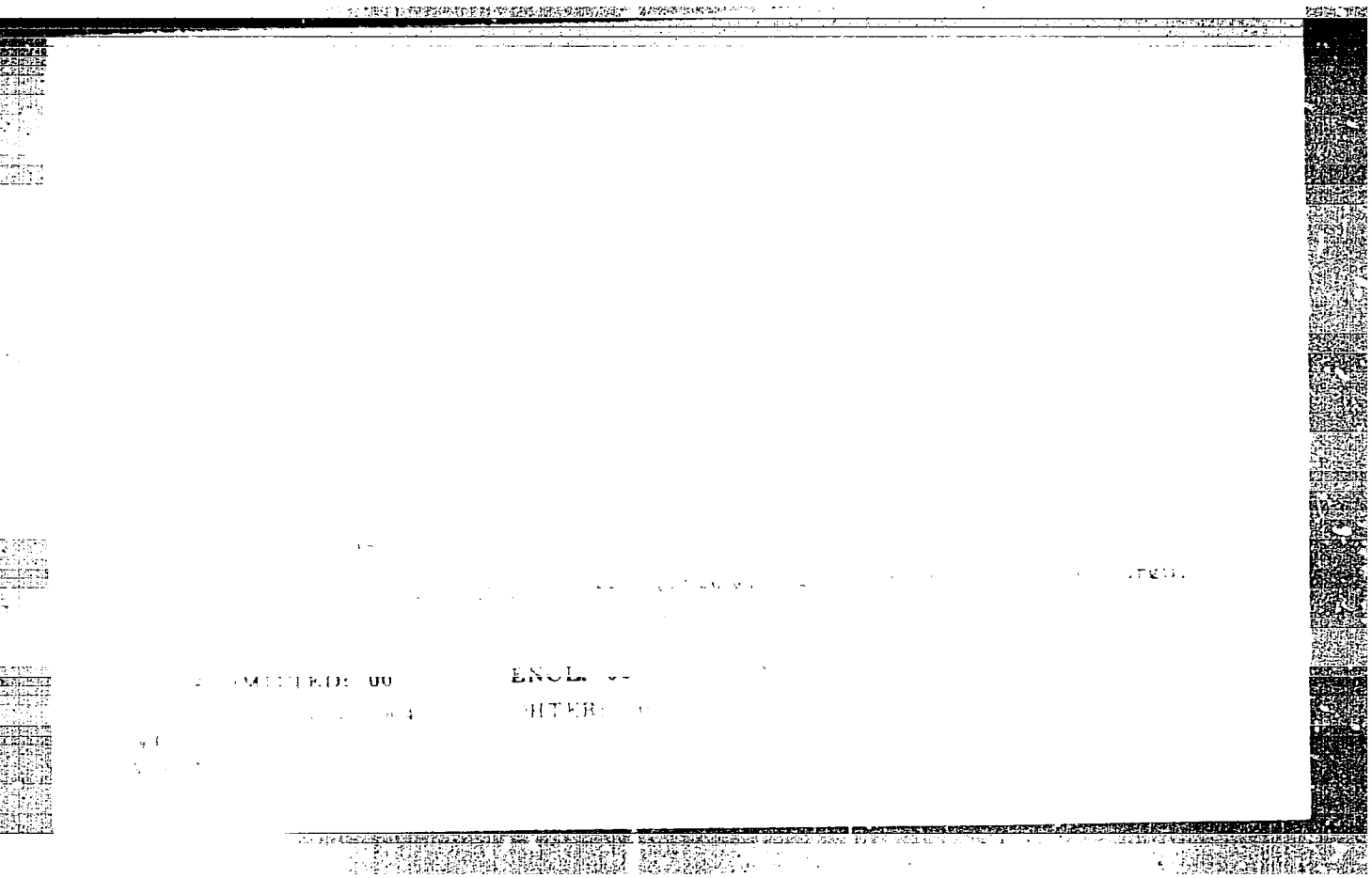

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L 3211-66 EWT(m)/EWP(t)/EWP(b)---IJP(c)---JD
ACCESSION NR: AT5012932 UR/2776/64/000/037/0025/0032 11

AUTHOR: Fedorov, A.A. 10

TITLE: Determination of microquantities of phosphorus in iron metal, iron ores, and nickel metal 88+1

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 37, 1964. Novyye metody ispytaniy metallov; khimicheskiy kontrol' v metallurgii (New methods in the analysis of metals; chemical control in metallurgy), 25-32

TOPIC TAGS: phosphorus determination, phosphorus admixture, iron analysis, nickel analysis, iron ore analysis, phosphorus precipitation

ABSTRACT: An effective method of separating phosphorus from iron and nickel is the precipitation of phosphorus with a collector of the composition $(MnO_2)_x(Fe_2O_3)_y(H_2O)$ from dilute nitric acid solution. The precipitate is formed by the reaction of manganous irons with potassium permanganate in the presence of ferric ions; at the same time, the permanganate oxidizes the compounds of trivalent phosphorus to orthophosphoric acid. It was found that boiling of the solution (5 min) promotes a complete trapping of phosphorus by the chosen collector. The collector most suitable for the coprecipitation of phosphate ions over the widest acidity range (2.5 to 27% HNO_3 by vol.) is formed by the reaction
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ACCESSION NR: AT5012932

between 0.4 g Mn^{2+}, 0.7 g Fe^{3+}, and 2 g of $KMnO_4$ in 300 ml of solution. The collector contains up to 0.3 g Fe and up to 1.2 g Mn. These optimum conditions can be somewhat modified when microquantities of phosphorus are determined. Although the collector is a compound of variable composition, the concentration of the elements entering into the composition of the precipitates lies within fairly narrow limits. Analytical procedures for the determination of 0.0004-0.012% phosphorus in iron metal, 0.0004-0.012% phosphorus in iron ores, and 0.0002-0.006% phosphorus in nickel metal, based on the above method, are described in detail. Orig. art. has: 4 figures and 3 tables.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii, Moscow (Central Scientific Research Institute for Ferrous Metallurgy)

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NO REF SOV: 004 OTHER: 002

Card 2/2

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) EW

AUTHOR: Fedorov, A. A., Sorokina, N. N.

TITLE: Spectrochemical determination of samarium, gadolinium, dysprosium, erbium, [illegible] scandium (0.01-0.6%) in steels and alloys

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 6, 196[illegible], 745-747

TOPIC TAGS: samarium, gadolinium, dysprosium, erbium, scandium, [illegible] steel, [illegible] steel analysis, rare earth [illegible]

ABSTRACT: A spectrochemical method is developed [illegible] Sm in [illegible]

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L [illegible]-65

ACCESSION NR: AP5016096

4

$\pm 3 \times 10^{-3}$ to $\pm 9 \times 10^{-2}$ %, respectively. The method was thus shown to be completely

The authors express their appreciation to Z. M. Sokolova, [illegible] who participated in this work.

[illegible] Im, L.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A. (Shchelkovo, Moskovskoy oblasti, ul. Pushkina, 16, kv.4)

Osteosynthesis of the clavicle with capron thread. Vest. khir. 92 no.6:104 Je '64. (MIRA 18:5)

1. Iz khirurgicheskogo otdeleniya (zav. - zasluzhennyy vrach RSFSR A.A. Fedorov) Shchelkovskoy gorodskoy bol'nitsy (glavnyy vrach - A.F. Pavlova).

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A. A., Engr. Cand. Tech. Sci.

Dissertation: "Fundamentals of Technical Exploitation of the Electrical Equipment in Industrial Enterprises." Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov, 20 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

GUSEV, S.A., inzh.; ZHUKHOVITSKIY, B.Ya., kand.tekhn.nauk; ZARIN, D.D., kand.tekhn.nauk; IVANOV-SMOLENSKIY, A.V., kand.tekhn.nauk; KNYAZEVSKIY, B.A., kand.tekhn.nauk; KUZMETSOV, A.I., inzh.; KOZIS, V.L., kand.tekhn.nauk; KORYTIN, A.A., inzh.; LASHKOV, F.P., inzh.; L'VOV, Ye.L., kand.tekhn.nauk; MEKLESHKINA, L.P., kand.tekhn.nauk; NEKRASOVA, N.M., kand.tekhn.nauk; NIKULIN, N.V., kand.tekhn.nauk; POLEVOY, V.A., kand.tekhnicheskikh nauk; RAZEVIG, D.V., kand.tekhn.nauk; ROZANOV, G.M., kand.tekhn. nauk; RUMSHISKIY, L.Z., kand.fiz.-matem.nauk; SVISTOV, N.K., kand.tekhn.nauk; SIROTINSKIY, Ye.L., kand.tekhn.nauk; SOKOLOV, M.M., kand.tekhn.nauk; TALITSKIY, A.V., prof.; TREMBACH, V.V., inzh.; FEDOROV, A.A., kand.tekhn.nauk; CHILIKIN, M.G., prof., glavnyy red.; GOLOVAN, A.T., prof., red.; PETROV, G.N., prof., red.; FEDOSEYEV, A.M., prof., red.; ANTIK, I.V., red.; SKVORTSOV, I.M., tekhn.red.

[Handbook for electric engineering] Elektrotekhnicheskii spravochnik. Moskva, Gos.energ.izd-vo, 1952. 640 p. (MIRA 13:2)

1. Prepodavateli Moskovskogo energeticheskogo instituta imeni V.M. Molotova (for all except Antik, Skvortsov).
(Electric engineering)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

PATSIORA, P.P., dotsent, kandidat tekhnicheskikh nauk; MAKAROCHKIN, I.M., retsenzent; NAIBAKH, M.P., retsenzent; FEDOROV, A.A., redaktor; VOLKHOVER, R.S., tekhnicheskiy redaktor

[Electric equipment in the forest industries] Elektrooborudovanie na lesorazrabotkakh. Moskva, Goslesbumizdat, 1953. 347 p. (MLRA 7:9)
(Lumbering--Machinery) (Electricity in forestry)

SMOS

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A., redaktor; KUZNETSOV, P.V., redaktor; VORONTSOV, F.F., redaktor; SAPAROVA, A.L., redaktor; LARIONOV, G.Ye., tekhnicheskiy redaktor.

[Reference book for the electrician in industrial plants] Spravochnik elektrika promyshlennykh predpriiatii. Pod obshchei red. A.A.Fedorova i P.V.Kuznetsova. Moskva, Gos. energ. izd-vo, 1954. 1040 p.
(Electric engineering) (MLRA 7:10)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A., dotsent, kandidat tekhnicheskikh nauk; KNYAZEVSKIY, B.A., dotsent, kandidat tekhnicheskikh nauk.

Book on the electric power supply of industrial enterprises. (MLRA 7:7)
Elektrichestvo no.6:85-86 Je '54.
(Electric power distribution)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Anatoliy Anatol'yevich; VERTEHNYY, V.I., redaktor; LARIONOV, G.Ye., tekhnicheskiy redaktor.

[Supplying industrial establishments with electricity] Elektrosnabzhenie promyshlennykh predpriiatii. Izd.2-oe, perer. i dop. Moskva, Gos.energ. izd-vo, 1956. 463 p. (MLRA 9:5)
(Electric power)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

AUTHOR: Fedorov, A.A. (Candidate of Technical Sciences) 94-2-2/27

TITLE: On the use of 20 kV in industry (O primenenii v promyshlennosti napryazheniya 20 kV)

PERIODICAL: Promyshlennaya Energetika, 1958, Vol.13. No.2. pp.5-6 (USSR)

ABSTRACT: This short article first presents the arguments against voltages of 10 kV or 30 kV and in favour of 20 kV for supply to industry. These are, that the transmission lines are cheap and simple, conductor copper is economised, 20 kV cables cost little more than 10 kV cables, and line conductors can be of steel. Also, 20 kV is convenient for supply to large towns and agricultural districts. The economy of capital resources by using 20 kV is argued from rough calculations of costs for power systems near Moscow and in an agricultural district. In both cases, the mean consumption of non-ferrous metal for the 20 kV scheme was only half that for the 10 kV scheme, and the power losses were 2 - 2.5 times less. Figures for capital and running costs and consumption of non-ferrous metal at different supply voltages are tabulated for various industries. There is 1 table.

ASSOCIATION: Moscow Power Institute. (Moskovskiy Energeticheskiy Institut).

AVAILABLE: Library of Congress.

Card 1/1

1. Electrical systems-Design 2. Electrical engineering-USSR
3. Electrical equipment-Selection 4. Voltage-Selection

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

YERMILOV, A.A., inzh; SEULIN, N.A., inzh; CHIZHISHIN, P.L., inzh.; CHEPELE, Yu.M., inzh.; MUSATOV, T.P., inzh.; FEDOROV, A.A., kand.tekhn.nauk; YAROSHETSKIY, L.M., inzh.; GOL'DENBLAT, B.I., inzh.; KUDRYASHOV, S.A., inzh.; ZAKHAROV, N.N., inzh.; SHCHUKIN, B.D., inzh.

Improving planning of industrial power supply. Prom. energ. 13 no.7: 18-29 Jl '58. (MIRA 11:10)

1. Tyazhpromelektroproyekt. (for Yermilov). 2. Zhemproyektas, g. Kaunas (for Chepele). Donbassenergo (for Musatov). 4. Moskovskiy energoticheskiy institut (for Fedorov). 5. Uzgiprovodkhoz. g. Tashkent (for Yaroshetskiy). 6. Proyektnyy institut Ministerstva stroitel'stva USSR, Odessa (for Gol'denblat). 7. Elektroproyekt, g. Kuybyshev (for Kudryashov). 8. Gosradioelektronika (for Zakharov). 9. Gidroproyekt, g. Kuybyshev (for Shchukin).

(Electric power)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Anatoliy Anatol'yevich, dots.

[Collection of problems for courses on the design of industrial electric power distribution systems] Sbornik zadanii na kursovoe proektirovanie po elektrosnabzheniiu promyshlennykh predpriiatii. Moskva, M-vo vysshego i srednego spetsial'nogo obrazovaniia RSFSR, 1959. 101 p. (MIRA 15:1)
(Electric power distribution)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A., kand.tekhn.nauk; GUREYEV, I.A., insh.

Some information pertaining to selection and checking of bus bars according to the mechanical resonance in the leads. Prom. energ. 15 no.4:18-22 Ap '60. (MIRA 13:6)
(Electricity--Distribution) (Bus conductors (Electricity))

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.

Calculation of losses in triple-wound power transformers. Prom. energ. 15 no.9:5-7 S '60. (MIRA 13:10)
(Electric transformers)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Anatoliy Anatoliyevich. Prinimali uchastiye: AFANAS'IEV, N.P.; KAMENEVA, V.V., inzh. GRUDINSKIY, P.G., prof., retsenzent; SERBINOVSKIY, G.V., dotsent, retsenzent; BOCHAROV, V.I., dotsent, kand.tekhn.nauk, retsenzent; VORONIN, K.P., tekhn.red.

[Electric-power supply of industrial enterprises] Elektrosnabzhenie promyshlennykh predpriiatii. Izd.3., perer. i dop. Moskva, Gos.energ.izd-vo, 1961. 742 p. (MIRA 14:4)

1. Frunzenskiy politekhnicheskiy institut (for Bocharov).
(Electric power distribution)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV A A

BACHURIN, N.I., inzh.; VOLKOV, S.S., inzh.; GORODETSKIY, S.S., prof., doktor tekhn. nauk; GUSEV, S.A., dotsent, kand. tekhn. nauk; ZHUKHOVITSKIY, B.Ya., dots., kand. tekhn. nauk; IVANOV-SMOLENSKIY, A.V., dots., kand. tekhn. nauk; KIFER, I.I., dots., kand. tekhn.nauk; KORYTIN, A.A., starshiy prepodavatel'; KULIKOV, F.V., dots.; NIKULIN, N.V., dots., kand. tekhn. nauk; PODMAR'KOV, A.N., dots.; PRIVEZENTSEV, V.A., prof., doktor tekhn. nauk; RUMSHINSKIY, L.A., dots., kand. fiz.-mat. nauk; SOBOLEV, V.D., dots., kand. tekhn.nauk; URLAPOVA, M.N., inzh.; TIKHOMIROV, P.M., dots., kand. tekhn. nauk; FEDOROV, A.A., dots., kand. tekhn. nauk; CHUNIKHIN, A.A., dots., kand. tekhn. nauk; CHILIKIN, M.G., prof., glav. red.; GOLOVAN, A.T., prof., red.; GRUDINSKIY, P.G., prof., red.; PETROV, G.N., prof., doktor tekhn. nauk, red.; FEDOSEYEV, A.M., prof., red.; ANTIK, I.V., inzh., red.; BORUNOV, N.I., tekhn. red.

[Electrical engineering handbook]Elektrotekhnicheskii spravochnik. 3., perer. i dop. izd. Pod obshchei red. A.T. Golovana i dr. Moskva, Gosenergoizdat. Vol.1. 1962. 732 p. (MIRA 15:10)

1. Moskovskiy energeticheskiy institut (for Golovan, Grudinskiy, Petrov, Fedoseyev, Chilikin, Antik).
(Electric engineering--Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.

Successful treatment of gangrenous stomatitis with novocaine block and antibiotics. Khirurgiia Supplement:56 '57. (MIRA 11:4)

1. Iz Dzhankoyskoy rayonnoy bol'nitsy Krymskoy oblasti.
(STOMATITIS) (NOVOCAINE) (ANTIBIOTICS)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

PICHUGIN, A.A., dotsent, kand.tekhn.nauk; BOCHAROV, Ye.V., inzh.. Prinimali uchastiye: KUZ'MINSKIY, A.G., inzh.; VOROMKINA, M.A., inzh.; FEDOROV, A.A., inzh.;BELOUSOV, M.A., inzh.ekonomist; PROSVIRNIN, G.V., inzh.; KNIGINA, G.I., dotsent, kand.tekhn.nauk; LESNIKOV, V.V., dotsent, kand.tekhn.nauk; SIDOROV, A.K., dotsent, kand. arkhitektury; KARTASHOV, A.A., arkhitektor; BARITSKIY, F.F., dotsent, kand.tekhn.nauk; KULISHOV, D.A., prof.; ZDESENKO, G.M., kand.tekhn. nauk; ALEKSANDRENKO, A.I., dotsent, kand.tekhn.nauk; STREL'NIKOV, G.Ye., kand.tekhn.nauk; VANEYEV, V.A., assistent; CHEREPKO, P.A., dotsent. SUSHINSKIKH, A.F., inzh., retsenzent; MEN'SHIKOV, P.N., red.; SUBBOTINA, G.M., tekhn.red.

[Manual for rural builders] Spravochnik proizvoditelia rabot sel'skokhoziaistvennogo stroitel'stva. Novosibirsk, Novosibirskoe knizhnoe izd-vo. Vol.1. 1959. 673 p. Vol.2. 1959. 677-1191 p. (MIRA 13:2)

(Farm buildings)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.

Effect of perforations on the external pressure resistance of pipes. Izv.vys.ucheb.zav.; neft' i gaz 1 no.10:107-115 '58. (MIRA 12:4)

1. L'vovskiy politekhnicheskiy institut.
(Pipe)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A. A.: Master Tech Sci (diss) -- "The effect of perforation on the resistance of pipes to external pressure". L'vov, 1959. 19 pp (Min Higher Educ Ukr SSR, L'vov Polytech Inst), 150 copies (KL, No 17, 1959, 109)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

3(5) SOV/132-59-8-13/18

AUTHORS: Ochkur, A.P., Sokolov, M.M., and Fedorov, A.A.

TITLE: On the Interpretation of Diagrams of Gamma-Gamma Core Sampling

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 8, pp 52-53 (USSR)

ABSTRACT: In the diagram obtained from gamma-gamma core sampling, anomalies caused by caverns in the borehole are similar to those caused by rocks and minerals of low density. A correct interpretation of such a diagram can be made, according to the authors, by comparing the diagrams obtained with sounds of a different length. If the thus obtained values of density coincide on a graduated graph of a gamma-gamma survey, the anomaly is caused by the change in density of a rock or mineral. The variation

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On the Interpretation of Diagrams of Gamma-Gamma Core Sampling

of the compared curves indicates that the bore-hole crosses a cavity. There are 2 graphs and 1 table.

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MIKOV, Dmitriy Stepanovich; FEDOROV, Aleksandr Anatol'yevich, ANDRFYEV, Vsevolod Aleksandrovich; UDODOVA, OI'ga Vladimirovna; IVANCHURA, Lev Ivanovich

[Geophysical methods of prospecting] Razvedochnaia geofizika. [By] D.S.Mikov i dr. Tomsk, Izd-vo Tomskogo univ., 1961. 340 p. (MIRA 18:5)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, A.A.; LINKOVA, F.V.

Determination of aluminum oxide in metallic aluminum by hydrochlorination. Zhur.anal.khim. 17 no.1:53-55 Ja-F '62. (MIRA 15:2)

1. I.P.Bardin Central Scientific-Research Institute of Ferrous Metal Industry, Moscow.

(Aluminum oxide)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

SOKOLOV, M.M.; KLEVTSOV, P.P.; FEDOROV, A.A.; KHITEYEV, P.P.

Separate determination of uranium, thorium, and potassium in natural occurrence using a scintillation gamma-spectrometer. Vop.rud.geofiz. no.41148-57 '64. (MIRA 18:1)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

L 47085-66 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AT6030278 SOURCE CODE: UR/2776/66/000/049/0084/0085

AUTHOR: Sorokina, N. N.; Fedorov, A. A.; Golubeva, V. M.; Chernyakhovskaya, F. V.

47
B+1

ORG: none

TITLE: Chemical-spectroscopic method of determining the samarium content in 1Kh13N16B and 12Kh1MF steels, and KhN77YuR alloy

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 49, 1966. Novyye metody ispytaniy metallov; khimicheskiy kontrol' v metallurgii (New methods in the analysis of metals; chemical control in metallurgy), 84-85

TOPIC TAGS: samarium, spectroscopy, metal chemical analysis

ABSTRACT: A chemical-spectroscopic method of determining the samarium content in 1Kh13N16B, and 12Kh1MF steels, and KhN77TYuR alloy has been developed. Samarium is isolated by precipitation in the form of fluoride, which is subjected to spectroscopic analysis. With this method, samarium contents of 0.001—0.1% can be determined with respective errors of ±0.0003—0.008%. Orig. art. has: 1 table. [TD]

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 001/

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

BRYLEV, G.B.; VASIL'CHENKO, I.V.; [illegible]TSEVAYA, V.I.; [illegible], A.A.

Combined radar and aerological observations in the lower 1.5-km. atmospheric layer. Trudy GGO no.173:76-90 '65.
(MIRA 18:3)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

TURKOV, G.A.; FEDOROV, A.A.

Development of the machinery industry in the Far East. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 18 no.1:8-10 Ja '65. (MIRA 18:4)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

ALEKSEYEVA, G.Ye., kand. tekhn. nauk, dots.; MELESHKINA, L.P., dots., kand. tekhn. nauk; BALUYEV, V.K., inzh.; BAMDAS, A.M., prof., doktor tekhn. nauk; VENIKOV, V.A., prof., doktor tekhn. nauk; YEZHKOV, V.V., kand. tekhn. nauk; ANISIMOVA, N.D., dots., kand. tekhn. nauk; GANTMAN, S.A., kand. khim. nauk; GLAZUNOV, A.A., dots., kand. tekhn. nauk; GOGUA, L.K., inzh.; GREBENNICHENKO, V.T., inzh.; GRUDINSKIY, P.G., prof.; GORFINKEL', Ya.M., inzh.; ZVEZDIN, A.L., inzh.; KAZANOVICH, G.Ya., inzh.; KNYAZEVSKIY, B.A., dots., kand. tekhn. nauk; KOSAREV, G.V., dots., kand. tekhn. nauk; MESSERMAN, S.M., kand. tekhn. nauk, dots.; KOKHAN, N.D., inzh.; KUVAYEVA, A.P., dots., kand. tekhn.nauk; SOKOLOV, M.M., dots., kand. tekhn. nauk; LASHKOV, F.P., dots., kand. tekhn. nauk; LAZIN, A.I., inzh.; YUDIN, F.I., inzh.; LIVSHITS, A.L., kand. tekhn. nauk; METEL'TSIN, P.G., inzh.; NEKRASOVA, N.M., dots., kand. tekhn. nauk; OL'SHANSKIY, N.A., dots., kand. tekhn. nauk; POLEVAYA, I.V., dots., kand. tekhn. nauk; POLEVOY, V.A., dots., kand. tekhn. nauk [deceased]; RAZEVIG, D.V., prof., doktor tekhn. nauk; RAKOVICH, I.I., inzh.; SOLDATKINA, L.A., dots., kand. tekhn. nauk; TREMBACH, V.V., dots., kand. tekhn. nauk; FEDOROV, A.A., prof., kand. tekhn. nauk; FINGER, L.M., inzh.; CHILIKIN, M.G., prof., doktor tekhn. nauk, glav. red.; ANTIK, I.V., inzh., red. GOLOVAN,A.T., prof.,red.; PETROV, G.N., prof., red.; FEDOSEYEV, A.M., prof., red.

(Continued on next card)

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ALEKSEYEVA, G.Ye.— (continued). Card 2.

[Electrical engineering manual] Elektrotekhnicheskii spravochnik. Pod obshchei red. A.T. Golovana i dr. Moskva, Energiia. Vol.2. 1964. 758 p. (MIRA 17:12)

1. Moscow. Energeticheskiy institut. 2. Moskovskiy energeticheskiy institut (for Golovan, Grudinskiy, Petrov, Fedoseyev, Chilikin, Venikov). 3. Chlen-korrespondent AN SSR (for Petrov).

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FEDOROV, A.A.

Give more attention to buckwheat. Zemledelie 23 no.12:26-27 D '61. (MIRA 15:1)

1. Glavnyy agronom po semenovodstvu zernovykh kul'tur Mogilevskogo oblastnogo upravleniya sel'skogo khozyaystva.
(Buckwheat)

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ACC NR: AP7001420 (A) SOURCE CODE: UR/0413/66/000/021/0134/0134

INVENTOR: Fedorov, A. F.

ORG: none

TITLE: A method for determining the radial explosive actions of the exploding charge of an electric detonator. Class 42, No. 188076

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 134

TOPIC TAGS: detonation, electric detonator, explosive, explosive charge

ABSTRACT: This Author Certificate presents a method for determining the radial explosive actions of the exploding charge of an electric detonator. Steel washers (plates) 1 mm thick and about 30 mm in the internal diameter (equal to the outside diameter of the electric detonator shell) are placed on the electric detonator along the entire length of the charge (see Fig. 1). A space of 1.6 mm is left between successive washers. The electric detonator is then exploded, and the power of each detonated zone is determined from the increase in the internal diameters of washers.

Card 1/2

UDC: 531.78.662.423

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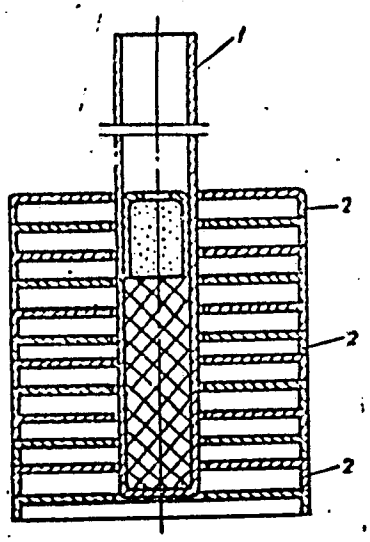
Fig. 1. 1 - shell; 2 - washer plates



Orig. art. has: 1 figure.

SUB CODE: 19, 13/ SUBM DATE: 05Sep63

Card 2/2

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Editors: FEDOROV, Al. A.; GAMMERMAN, A. F.; GUSYNIN, I. A.; IL'IN, M. M.; NEKRASOVA V. L.; NIKITIN, A. A.; Responsible editor: SHISHKIN, B. K.

Poisonous Plants of Meadows and Pastures, Botanical Institute imeni V. L. Komarov. Moscow-Leningrad; 1950, 527 pp.

Book W-22202, 7 Apr 52

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Al. A.

Botany-Curiosa and Miscellany, Plants, Flowering of

Cauliflory in Erica arborea L. Al. A. Fedorov. Bot. zhur. 37 No. 3 1952.
Botanicheskiy Institut im. V.L. Komarova, Akademii Nauk SSSR Recd. March 15, 1952

SO: Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

1. FEDOROV, AL.A.

2. USSR (600)

4. Roots (Botany)

7. Natural "spot"seeding and self-grafting of roots in dandelions (Taraxacum). Bot.zhur. 37 no. 6. 1952

9. Monthly List of Russian Accessions, Library of Congress, March,1953.Unclassified.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

SHARAPOV, N.I.; FEDOROV, Al.A., doktor biologicheskikh nauk, professor, otvetstvennyy redaktor; LUKASHEVICH, L.A., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

[Plant chemistry and climate] Khimiia rastenii i klimat. Moskva, Izd-vo Akademii nauk SSSR, 1954. 207 p. (MLRA 7:11)
(Botanical chemistry) (Crops and climate)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV,Al.A.; FEDOROV,An.A.; RZAZADE,R.Ya.

New and important Caucasian species of the genus Astragalus L.
Bot.mat.Gerb. no.16:221-232 '54. (MLRA 8:9)
(Astragalus)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Al.A.

New species of spurge (Euphorbia L.) from Kopet Dagh. Bot.mat. Gerb. 16:241-244 '54. (MIRA 8:9)

(Spurge)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Al.A.

Relation and interdependence of some anomalous structures in plants (for example: Campanula medium L.) Bot.zhur. 39 no.4: 568-576 Jl-Ag '54. (MLRA 7:10)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR, Leningrad.
(Botany--Anatomy)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Al.A., KIRPICHNIKOV, M.E.; ARTYUSHENKO, Z.T.; BARANOV, P.A., redaktor; SHCHERBINA, T.S., redaktor izdatel'stva; KIRNARSKAYA, A.A., tekhnicheskiy redaktor

[Atlas of descriptive morphology of the higher plants; leaves] Atlas po opisatel'noi morfologii vysshikh rastenii; list. Pod obshchei red. P.A.Baranova. Moskva, Izd-vo Akademii nauk SSSR, 1956. 301 p. ---[Models for the determination of principal laminar forms] Shablony dlia opredeleniia osnovnykh form plastinki lista. 6 l. (in pocket) (MLRA 9:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Baranov)
(Leaves--Morphology)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Al.A. (Leningrad)

Tasks and outlook for the development of botany in the sixth five-year plan. Bot.zhur. 41 no.3:313-317 Mr '56. (MLRA 9:8)
(Botany)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Al.A.

Some anomalies in tulips and their importance in studying the morphological structure of Tulipa. Bot.zhur. 41 no.5:681-689 My '56. (MLRA 10:7)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Leningrad.
(Tulips) (Abnormalities (Plants))

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000412610018-8

FEDOROV, Al.A.

Interesting case of anomaly in the fruit structure of a sweet and trefoliate orange hybrid. Bot. zhur.41 no.10:1474-1478 O '56. (MLRA 10:1)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR. Leningrad.

(Orange) (Fruit--Morphology)

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